

Table J1b. - Physical Properties of the Soils

Mathews County, Virginia

Entries under "Erosion Factors--T" apply to the entire profile. Entries under "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
Be:														
Bertie	0-10	---	---	10-20	1.30-1.60	2-6	0.13-0.19	0.0-2.9	0.5-3.0	.37	.37	5	3	86
	10-37	---	---	18-35	1.30-1.50	0.6-2	0.13-0.19	3.0-5.9	0.0	.24	.24			
	37-64	---	---	3-20	1.30-1.50	2-6	0.10-0.15	0.0-2.9	0.0	.24	.24			
Dragston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fallsington	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cb:														
Coastal beach	---	---	---	---	---	---	---	---	---	---	---	5	1	310
Tidal Marsh	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dr:														
Dragston	0-8	---	---	4-15	1.20-1.50	2-6	0.10-0.15	0.0-2.9	1.0-2.0	.28	.28	4	3	86
	8-25	---	---	10-30	1.25-1.45	2-6	0.13-0.19	0.0-2.9	0.0	.17	.17			
	25-75	---	---	2-18	1.35-1.55	6-20	0.04-0.16	0.0-2.9	0.0	.17	.17			
Bertie	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fallsington	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ek:														
Elkton	0-8	---	---	11-25	1.20-1.50	0.6-2	0.18-0.24	0.0-2.9	1.0-3.0	.43	.43	3	5	56
	8-47	---	---	27-60	1.35-1.55	0.06-0.2	0.14-0.20	6.0-8.9	0.0	.37	.37			
	47-79	---	---	2-30	1.45-1.65	0.2-0.6	0.10-0.15	0.0-2.9	0.0	.32	.32			
Bertie	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table J1b. - Physical Properties of the Soils - Continued

Mathews County, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
Ek:														
Fallsington	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fa:														
Fallsington	0-8	---	---	5-25	1.00-1.45	0.6-6	0.15-0.20	0.0-2.9	0.5-2.0	.24	.24	5	3	86
	8-37	---	---	18-30	1.50-1.80	0.2-2	0.15-0.18	0.0-2.9	0.0	.28	.28			
	37-93	---	---	2-30	1.50-1.85	0.6-6	0.06-0.20	0.0-2.9	0.0-0.5	.20	.20			
Elkton	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bertie	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---	---	---	---	---	---
KeA:														
Kempsville	0-11	---	---	5-15	1.30-1.40	2-6	0.08-0.14	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	11-40	---	---	12-35	1.30-1.45	2-6	0.12-0.18	0.0-2.9	0.0	.24	.24			
	40-79	---	---	2-20	1.35-1.65	0.6-2	0.12-0.18	0.0-2.9	0.0	.24	.24			
Sassafras	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Woodstown	---	---	---	---	---	---	---	---	---	---	---	---	---	---
KeB:														
Kempsville	0-11	---	---	5-15	1.30-1.40	2-6	0.08-0.14	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	11-40	---	---	12-35	1.30-1.45	2-6	0.12-0.18	0.0-2.9	0.0	.24	.24			
	40-79	---	---	2-20	1.35-1.65	0.6-2	0.12-0.18	0.0-2.9	0.0	.24	.24			
Sassafras	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Woodstown	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table J1b. - Physical Properties of the Soils - Continued

Mathews County, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
KtA:														
Kempsville	0-11	---	---	5-15	1.30-1.40	2-6	0.08-0.14	0.0-2.9	0.5-2.0	.28	.28	4	3	86
	11-40	---	---	12-35	1.30-1.45	2-6	0.12-0.18	0.0-2.9	0.0	.24	.24			
	40-79	---	---	2-20	1.35-1.65	0.6-2	0.12-0.18	0.0-2.9	0.0	.24	.24			
Woodstown	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bertie	---	---	---	---	---	---	---	---	---	---	---	---	---	---
KyA:														
Keyport	0-8	---	---	10-25	1.20-1.60	0.2-2	0.16-0.22	0.0-2.9	1.0-3.0	.43	.43	3	5	56
	8-37	---	---	40-60	1.35-1.60	0.06-0.2	0.14-0.20	6.0-8.9	0.0	.32	.32			
	37-79	---	---	7-35	1.35-1.75	0.009-6	0.07-0.20	3.0-5.9	0.0	.28	.28			
Woodstown	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bertie	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Elkton	---	---	---	---	---	---	---	---	---	---	---	---	---	---
KyD2:														
Keyport	0-8	---	---	10-25	1.20-1.60	0.2-2	0.16-0.22	0.0-2.9	1.0-3.0	.43	.43	3	5	56
	8-37	---	---	30-50	1.35-1.60	0.06-0.2	0.14-0.20	3.0-5.9	0.0-0.5	.32	.32			
	37-79	---	---	5-50	1.35-1.75	0.001-20	0.07-0.20	0.0-2.9	0.0-0.5	.28	.28			
Woodstown	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bertie	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Elkton	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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Table J1b. - Physical Properties of the Soils - Continued

Mathews County, Virginia

Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
Ma:														
Mixed alluvial land	0-8	---	---	10-25	1.20-1.60	0.2-2	0.16-0.22	0.0-2.9	1.0-3.0	.43	.43	---	---	---
	8-37	---	---	10-25	1.35-1.60	0.06-0.2	0.14-0.20	3.0-5.9	0.0-2.0	.32	.32			
Elkton	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fallsington	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SaA:														
Sassafras	0-8	---	---	3-18	1.00-1.45	0.6-6	0.10-0.16	0.0-2.9	1.0-2.0	.28	.28	5	3	86
	8-36	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0	.37	.37			
	36-70	---	---	2-20	1.40-1.70	0.6-6	0.04-0.12	0.0-2.9	0.0	.17	.20			
Woodstown	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fallsington	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SaB2:														
Sassafras	0-8	---	---	3-12	1.00-1.45	0.6-6	0.10-0.16	0.0-2.9	1.0-2.0	.28	.28	5	3	86
	8-36	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	36-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			
Woodstown	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fallsington	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SdA:														

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Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
SdA:														
Sassafras	0-8	---	---	2-18	1.20-1.55	0.6-6	0.06-0.10	0.0-2.9	1.0-2.0	.28	.28	5	2	134
	8-36	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0-0.5	.37	.37			
	36-70	---	---	3-16	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0-0.5	.17	.20			
Woodstown	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fallsington	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SsD:														
Sloping sandy land	0-6	---	---	1-10	1.35-1.70	6-20	0.05-0.10	0.0-1.5	0.5-3.0	.10	.10	---	---	---
	6-60	---	---	1-10	1.60-1.70	6-20	0.05-0.07	0.0-1.5	0.0-0.5	.10	.10			
Steep sandy land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
StE:														
Steep sandy land	0-6	---	---	1-10	1.35-1.70	6-20	0.05-0.10	0.0-1.5	0.5-3.0	.10	.10	---	---	---
	6-60	---	---	1-10	1.60-1.70	6-20	0.05-0.07	0.0-1.5	0.0-0.5	.10	.10			
sloping sandy land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Th:														
Tidal marsh	0-13	---	---	5-18	1.15-1.35	0.6-2	0.15-0.23	0.0-2.9	10-20	.15	.15	5	---	---
	13-40	---	---	5-18	1.15-1.35	0.6-2	0.13-0.22	0.0-2.9	5.0-15	.15	.15			
	40-80	---	---	1-40	1.15-1.40	0.6-2	0.05-0.23	0.0-2.9	1.0-15	.28	.28			
Tidal Marsh	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Coastal Beach	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Depth	Sand	Silt	Clay	Moist Bulk Density	Permeability (Ksat)	Available Water Capacity	Linear Extensi- bility	Organic Matter	Erosion Factors			Wind Erodi- bility Group	Wind Erodi- bility Index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/Hr	In/In	Pct	Pct					
To:														
Tidal marsh	0-20	---	---	27-40	1.10-1.25	0.2-2	0.21-0.23	6.0-8.9	10-25	.32	.32	5	---	---
	20-60	---	---	35-60	1.30-1.60	0.001-0.06	0.12-0.14	6.0-8.9	5.0-20	.24	.24			
	60-80	---	---	5-60	1.30-1.60	0.001-0.06	0.12-0.22	6.0-8.9	5.0-20	.24	.24			
Tidal Marsh	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Coastal Beach	---	---	---	---	---	---	---	---	---	---	---	---	---	---
W:														
Inland water	---	---	---	---	---	---	---	---	---	---	---	---	---	---
WATER:														
Open water	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Wo:														
Woodstown	0-9	---	---	3-20	1.00-1.45	0.6-6	0.10-0.16	0.0-2.9	1.0-2.0	.28	.28	4	3	86
	9-35	---	---	18-27	1.40-1.65	0.2-2	0.11-0.22	0.0-2.9	0.0	.37	.37			
	35-60	---	---	3-20	1.40-1.70	0.6-20	0.04-0.12	0.0-2.9	0.0	.17	.20			
Sassafras	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Keyport	---	---	---	---	---	---	---	---	---	---	---	---	---	---